

REMARKS

The objection set forth in paragraph 5 has been cured.

Reconsideration of the Section 112 rejections in paragraph 3 is respectfully requested.

Claim 14, line 6, calls for “an electrically resistive film in the recess to form a heater.” In the specification, a polysilicon film 230 is formed in a recess 220 as shown in Figure 13. The electrode material 270 has a higher resistivity than doped polysilicon. See page 17, lines 17-23 and Figure 20. It is explained in the specification that “a significant heating in the upper regions [270, 275, and 280] occurs in comparison to the lower regions.” See specification at page 25, lines 5-8. Thus, it is clear that the upper regions 270, 275, and 280 act as a heater.

Claim 14, line 10, calls for “a phase change material over said wall.” Figure 23 shows the phase change material 290 is over the material 270 in the form of a vertical wall.


Claim 35, line 3, calls for “a heater material over said recess.” Again, claim 23 calls for a phase for the material 270, 275, and 280. Thus, the claim has been amended to call for heater material in the recess.

Claim 35, line 5, calls for “a phase change material over said heater material in contact with said edge.” The edge includes the elements 270, 275, and 280. As pointed out above, at page 25, lines 5-8, this material creates significant heating and, therefore, constitutes heating materials. Moreover, Figure 22 is an optional embodiment. See page 20, line 22. Figure 20 shows a structure without such a barrier material 275, 280. The term “edge” can be the item 270 in Figure 20 or the items 275 or 280 in Figure 22. There is nothing which indicates that the edge itself must do the actual heating. It merely indicates that the phase change material must be in contact with the edge. Some clarification in the claim language has been included to indicate that the language “in contact with the edge” relates to the phase change material, not the heater material.

In view of these remarks, the application is now believed to be in condition for allowance and the Examiner's prompt action in accordance therewith is respectfully requested.

Respectfully submitted,

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